3(4) PHASE I BOOK EXPLOITATION SOV/2879

Vendrov, Semen Leonidovich, Aleksandr Afanas'yevich Groshev, Nikolay Mikhaylovich Isakov, Leonid Aleksandrovich Sergeyev, Iosif Mikhaylovich Shepshelevich, and Viktor Aleksandrovich Velichko

Sovremennaya tekhnika gidrograficheskikh izyskaniy (Modern Techniques in Hydrographic Surveying) Leningrad, Izd-vo "Rechnoy transport," Leningr. otd-niye, 1957. 170 p. 1,500 copies printed.

Ed. (Title page): Ye. V. Bliznyak, Doctor of Technical Sciences, Professor; Reviewer: A. I. Gruzinov; Ed. (Inside book): D. M. Kudritskiy; Tech. Ed.: K.M. Volchok.

PURPOSE: This book is intended for engineering and technical personnel engaged in hydrographic survey work. It may also serve as a textbook for students of hydrographic surveying.

COVERAGE: This book covers the basic principles and techniques of surveying inland waterways. It describes the role played by ultrasonics, radio, lighting

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engineering, and aerial photography in hydrographic surveying. Various sounding devices and range finders are described. No personalities are mentioned. There are 13 Soviet references.

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Modern Techniques in Hydrographic (Cont.) SOV/2879

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Modern Techniques in Hydrographic (Cont.) SOV/2879

AVAILABLE: Library of Congress (VK591.B55)

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12-29-59

VERNADOV, D.F.

BOGOSLOVSKIY, Mikhail Alekseyevich, dots., kand.tekhn.nauk; DOMANEVSKIY, M.A., kand.tekhn.nauk, retsenzent; SHERLAIMOV, A.P., retsenzent; MELEKHIN, A.M., retsenzent; VERNOV, S.L., kand.geograf.nauk, red.; MAKRUSHINA, A.N., red.izd-va; SALAZKOV, N.P., tekhn.red.

[Waterways and ports] Vodnye puti i porty. Moskva, Izd-vo "Rechnoi transport." Pt.1. [Investigation of waterways] Issledovaniia vodnykh putei. 1957. 251 p. (MIRA 11:4)
(Inland navigation) (Hydraulic engineering)

VENDROV, S.L.

Modification of the relief of the banks, and bottom Reservoir in 1952-1956. Izv. AN SSSR. Ser. Geog. no.3:75-80 My-Je '57.
(MIRA 10:12)

1. Gosudarstvennyy institut proyektirovaniya i izyskaniya na rechnom transporte.

(TSimlyansk—Reservoir)

VENDROV, S.L., kandidat geograficheskikh nauk; LYCHEVKO, B.F.;
PATRIKEYEV, V.V., kandidat khimicheskikh nauk; PEKISHEV, K.M.

The use of phosphors to study sand drifts along reservoir coasts.
Rech. transp. 16 no.4:26-29 Ap '57. (MLRA 10:5)
(Luminescent substances) (Sand)

VENDROV, S. L.

On the formation of shores and the bottom of water reservoirs, S. L. Vendrov dealt with the]Tsimlyansk, the Kama, and the Kuybyshev water reservoirs.

report presented at the 3rd All-Union Hydrological Congress, 7-17 Oct 1957, Leningrad.

(Izv. Ak Nauk SSSR, ser geograf., 3, pp 3-9, 1958)

VEDDROV, S.L.

VEDDROV, S.L., kand. geogr. nauk.

Length of the navigation season on reservoirs. Rech. transp. 17 no.1:25-26 Ja '58. (MIRA 11:3)

(Inland navigation)

VENDROV, S.L., kand.geogr.nauk

Urgent tasks in surveying for inland water transportation. Rech. transp. 17 no.8:40-42 Ag '58. (MIRA 11:10)
(Hydrographic surveying) (Inland navigation)

VENIROV, S. L.: Doc Geogr Sci (diss) -- "Problems of the bed conditions of large reservoirs on plains rivers". Moscow, 1959. 24 pp (Moscow State U im M. V. Lomonosov, Geogr Faculty), 150 copies (KL, No 18, 1959, 122)

BLIZNYAK, Ye.V.,otv.red. [deceased]; ROSSINSKIY, K.I., otv.red.; ANDREYEV, O.V., red.; VENDROV, S.L., red.; ZRELOV, N.P., red.; POPOVA, K.L., red.; RZHANITSYN, N.A., red.; FIDMAN, B.A., red.; YAROSLAVTSEV, I.A., red.; VIKULOVA, L.I., red.; VASIL'YEV, Yu.F., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[New methods and equipment for studying stream-channel processes] Novye metody i apparatura dlia issledovanii ruslovykh protsessov. Moskva, 1959. 220 p. (MIRA 12:8)

1. Akademiya nauk SSSR, Sovet po problemam vodnogo khozyaystva. 2. Sovet po problemam vodnogo khozyaystva Akademii nauk SSSR (for Bliznyak). 3. Giprorechtrans Ministerstva rechnogo flota RSFSR (for Vendrov). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Yaroslavtsev). (Hydrology--Research)

B(5) SOV/10-59-1-14/19

AUTHOR: Vendrov S.L.

TITLE: On the Changes of the River Flow System in Connection With the Economic Activity on Watersheds.

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 2, pp 109-112 (USSR)

ABSTRACT: This article is a continuation of previous investigations, where, by the example of an analysis of the flow factors of the Don River, it was shown, that during the last decades (up to 1950) the correlations of the seasonal flow of the river changed, and that there was a trend to lower average values of maximum flows and spring high water levels. These changes were due not only to climatic factors, but also to economic activity as the removal of borders of individual fields, which previously served as drainage channels for melted snow, the mass construction of ponds in ravine-gully zones, the adoption of autumn ploughing, further

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On the Changes of the River Flow System in Connection With the Economic Activity on Watercourses.

of [illegible] afforested [illegible] etc. On the basis of [illegible] obtained results, the author [illegible] period from 19[illegible] and comes to the conclusion, [illegible] the change in the system [illegible] annual flow, i.e. the diminution of the [illegible] role of the spring flow and the relatively higher importance of the [illegible] flow, is connected with the reduction of the [illegible] flow during the last 25-27 years, and [illegible] be considered as an incontestable fact. The author [illegible] the following Soviet scientists: [illegible] [illegible], [illegible] Menkel', D.L. Sokolovskiy, [illegible] [illegible]shvili, V.V. [illegible]kov, A.P. [illegible]kov, M.I. L'vovich, [illegible] Polyakov, O.N. Borsuk, A.V. [illegible]itnikov, V.V. Dobro[illegible]ov, [illegible] Ismail'skiy, [illegible] [illegible]kov. Reference [illegible] made to the Polish scientists: [illegible] and [illegible]ski. There are [illegible] tables, [illegible] sets of graphs and 20 references, 17 of which are Soviet, 1 Polish, 1 German and 1 English.

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VENDROV, S.L.

Aerial photogrammetric explorations and investigations undertaken by the State Institute for River Transport Planning and Research. Trudy Lab.aeromet. 7:221-225 '59. (MIRA 13:1)

1. Giprorechtrans.
(Aerial photogrammetry)
(Hydrographic surveying)

VENDROV, S.L.; GELLER, S.Yu.; ZHIVAGO, A.V.

Awarding the Lenin Prize to V.P. Zenkovich for scientific work "A monograph on seacoasts". Izv. AN SSSR. Ser. geog. no.5:89-91 S-O '64. (MIRA 17:11)

AVSYUK, G.A.; ARMAND, D.L.; VENDROV, S.L.; GELLER, S.Yu.; GERASIMOV, I.P.; GRIGOR'YEV, A.A.; GRICHUK, V.P.; DZERDZEYEVSKIY, B.L.; KAMANIN, L.G.; ISAKOV, Yu.A.; LEONT'YEV, N.F.; L'VOVICH, M.I.; MURZAYEV, E.M.; NEYSHTADT, M.I.; RIKHTER, G.D.; SOBOLEV, L.N.

On Academician Vladimir Nikolaevich Sukachev's 85th birthday. Izv. AN SSSR. Ser. geog. no.4:3-4 Jl-Ag '65.

(MIRA 18:8)

ARMAND, D.L.; BUDAGOVSKIY, A.I.; VENDROV, S.L.; VITVITSKIY, G.N.; GELLER, S.Yu.; GERASIMOV, I.P.; DZERDZEYEVSKIY, B.L.; GIUKH, I.S.; GRIGOR'YEV, A.A.; DANILOVA, N.A.; ZHIVAGO, A.V.; KEMMERIKH, A.O.; KRAVCHENKO, D.V.; KUVSHINOVA, K.V.; MEDVEDEVA, G.P.; RAUNER, Yu.L.; CHUBUKOV, L.A.

Aleksandr Petrovich Gal'tsov, 1909-1965; an obituary. Izv. AN SSSR. Ser. geog. no.6:145 N-D '65. (MIRA 18:11)

VENDROV, S.I.

Prediction of changes in the natural conditions of the northern Ob' Valley after the construction of the Lower-Ob' Hydroelectric Power Station. Izv. AN SSSR. Ser. geog. no.5:37-49 S-O '65. (MIRA 18:10)

1. Institut geografii AN SSSR.

VENDROV, S.L.; MALIK, L.K.

Practice in determining the influence of large reservoirs on the local climate. Izv. AN SSSR Ser. geog. no.4:35-46 '64 (MIRA 17:8)

1. Institut geografii AN SSSR.

VENDROV, S.L.; MALIK, L.K.

Conference in Stavropol-on-Volga on reservoir study. Izv. AN SSSR. Ser.geog. no.6:134-136 N-D '62. (MIRA 15:12)
(Reservoir—Congresses)

VENDROV, S.L.

"Fluctuations and variations in streamflow." Izv.Vses.geog.ob-va 95 no.3:275-277 My-Je '63. (MIRA 16:8)
(Hydrology)

VENDROV, S.L.

Several remarks on the uniform deep-water system of the main inland waterways of the European U.S.S.R. Vest. Mosk. un. Ser. 5: Geog. 18 no.2:3-10 Mr-Ap '63. (MIRA 16:3)

1. Institut geografii AN SSSR.
(Russia, Northwestern--Inland water transportation)

VENDROV, S.L.

Geographical aspects of redirecting a part of the Pechora and Vych... runoff into the Volga basin. Izv.AN SSSR.Ser.geog. no.2, 35-45 Mr-Ap '63. (MIRA 16:4)

1. Institut geografii AN SSSR.
(Volga River) (Pechora River—Regulation)
(Vychegda River—Regulation)

VENDROV, S.L.

Problems of the West Siberian water resources. Izv. AN SSSR. Ser.geog. no.1:36-44 Ja-F '63. (MIRA 16:2)

1. Institut geografii AN SSSR.
(Siberia, Western—Water resources development)

VENDROV, S.L.

"Hygiene of reservoirs," edited by N.N.Litvinov. Reviewed by S.L.Vendrov. Izv. AN SSSR. Ser. geog. no.2:37-41 Mr-Ap '62. (MIRA 15:3)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po vodnomu khozyaystvu.

(Reservoirs--Sanitation)

VENDROV, S.L.; KOSTYANITSYN, M.N.

Books on the hydrological regime of river estuaries prepared at the State Oceanographic Institute and published during 1956-1958.
Biul.Okean kom. no.8:94-99 '61. (MIRA 15:1)
(Bibliography--Estuaries)

VENDROV, S.L.

Multipurpose use and conservation of water resources, and some problems of hydrometeorological service. Meteor. i gidrol. no.4:27-33 Ap '62. (MIRA 15:5)
(Water resources development)

VENDROV, S.L.

Comprehensive utilization and preservation of water resources and problems of training specialists in the Geography Faculty. Vest. Mosk.un. Ser. 5: Geog. 16 no.5:41-47 S-O '61. (MIRA 14:9)

1. Gosudarstvennoye vodyanoye khozyaystvo RSFSR.
(Water resources development)

VENDROV, S., doktor geograf.nauk

Deformation of TSimlyansk Reservoir shores in navigable areas. (MIRA 14:9)
Rech. transp. 20 no.9:35-36 S '61.
(TSimlyansk Reservoir--Coast changes)

VENDROV, S.L.

Role of reservoirs in altering nature. Izv. AN SSSR. Ser. geog. no. 4:45-57 Jl-Ag '61. (MIRA 14:7)

1. Gosudarstvennyy komitet Soveta Ministrov RSFSR po vodnomu khozyaystvu.
(Reservoirs) (Physical geography)

VENDROV, S.L.

Letter to the editor. Meteor. i gidrol. no.2:60 F '61. (MIRA 14:1)

(Hydrology) (Dredging)

VENDROV, S.L.

Geomorphological and hydrological studies on the Engure Lake, Latvian S.S.R. in the middle of the 18th century and its significance for our knowledge of the development of lake shores and reservoirs. Izv.AN SSSR.Ser.geog. no.4:111-116 Jl-Ag '60. (MIRA 13:7)

1. Gosudarstvennyy institute proyektirovaniya na rechnom transporte. (Engure Lake)

VENDROV, S., kand.geogr.nauk

Water balance in reservoirs and certain problems of their use. (MIRA 13:5)
Rech.transp. 19 no.1:36-39 Ja '59.
(Reservoirs)

AFANAS'YEVA, R.Ya.; KOROTKOVA, L.N.; VENDROV, Ya.A.

Manufacture of water resistant chrome leather for shoe uppers. (MIRA 16:1)
Kozh.-obuv.prom. 4 no.12:28-29 D '62.
(Leather)

Z/011/62/019/006/001/003
E073/E135

AUTHOR: Vendrovskiy, K.N. et al.

TITLE: Present and achievable sensitivity of photographic silver-halogen sensitized layers

PERIODICAL: Chemie a chemická technologie; Přehled technické a hospodářské literatury, v.19, no.6, 1962, 291. Abstract Ch 62-3971 (Zh. nauchnoy i prikladnoy, Fotografii i kinematografii, v.6, no.5, 1961, 367-370).

TEXT: The limit sensitivity of an idealized photo-emulsion (with a particle size of 1 μ^2) is calculated and a comparison made with values at present achieved. The authors conclude that possibilities of improving the sensitivity of present-day emulsions have been exhausted.
1 figure, 3 tables, 8 references.
[Abstractor's note: Complete translation.]

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VENDROVSKIY, K.V.; TRUBNIKOVA, A.A.; SHASHLOV, B.A.

Effect of stannous chloride on infective development.
Zhur.nauch.i prikl.fot.i kin. 7 no.6:470-471 N-D '62.
(MIRA 15:12)

1. Moskovskiy poligraficheskiy institut.
(Photography—Developing and developers)
(Stannous chloride)

VENDROVSKIY, K.V.; KARTUZHANSKIY, A.L.; PYASETSKAYA, O.V.

Dependence of the photometric equivalent upon the nature of the radiation acting on the photographic layer and upon the conditions of exposure. Zhur.nauch.i prikl.fot.i kin. 8 no.1:67-69 Ja-F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI) i Leningradskiy institut sovetskoy torgovli imeni F.Engel'sa. (Photographic sensitometry)

VASETSKAYA, O.V.; VENDROVSKIY, K.V.

Effect of the density of the photographic layer darkening on the photometric equivalent. Zhur.nauch.i prikl.fot.i kin. 7 no.5:392-393 S-O '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).
(Photography—Developing and developers)

Vendrovskiy, K.V.

VENDROVSKIY, K.V.; SHASHLOV, B.A.; IOFIS, Ye.A., kand.tekhn.nauk, redaktor; TELESHEV, A.N., redaktor; MATISSEN, Z.M., tekhnicheskiy redaktor.

[For the beginner in photography] Nachinaiushchemy fotoliubiteliu. Pod red.E.A.Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1957. 164 p. (MIRA 10:11)
(Biblioteka fotoliubitelia, no.12)
(Photography)

PAKUSHKO, I.Z.; VENDROVSKIY, K.V.

Photographic properties of foreign photographic films. Zhur.nauch. i prikl.fot. i kin. 9 no.2:142-151 Mr-Ap '64. (MIRA 17:4)

VENDROVSKIY, K.V.

VENDROVSKIY, K.V.

Deviations from interchangeability in halftone negatives. Zhur. nauch.i prikl.fot.i kin. 2 no.6:445-449 N-D '57. (MIRA 10:12)

1. Moskovskiy poligraficheskiy institut.
(Photomechanical processes)

VENDROVSKIY K.

Supplementary exposure of photographic materials. Sov.foto 17 no.7: 45-47 Jl '57. (MLRA 10:8)
(Photography--Exposure)

VENDROVSKIY, K.V.; SHEHERSTOV, V.I.

Influence of hypersensitizing with amines on reciprocity law failure under the condition of low illuminations. Zhur. nauch. i prikl. fot. i kin. 3 no.2:136-137 Mr-Ap '58. (MIRA 11:5)

1.Moskovskiy poligraficheskiy institut.
(Photographic sensitometry)

SOV 77-3-4-17/23

AUTHORS: Vendrovskiy, K.V.; Shashlov, B.A.

TITLE: The Use of the GOST 2817-50 Sensitometric System for Determining the Properties of Technical Photographic Films (O primenenii sensitometricheskoy sistemy GOST 2817-50 dlya otsenki svoystv fototekhnicheskikh plenok)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 4, pp 293-294 (USSR)

ABSTRACT: The authors attack the GOST 2817-50 sensitometric system for determining the sensitivity of films intended for various types of photographic practice by testing them under "average conditions". The different groups of films are not interchangeable and should therefore be tested under various conditions suitable for each designation (e.g. polygraphy, astronomical or aerial photography). Some examples of the discrepancies between the average conditions used in testing and those met with in practice are given. In determining the criterion of photosensitivity of a given film its designated use and the conditions of development should be taken into account when selecting a point on the straight-line portion of the characteristic curve. The authors point out that the criterion $D_o + 0.2$ lies outside the working densities of films. The

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The Use of the GOST 2817-50 Sensitometric System for Determining the Properties of Technical Photographic Films

typographical laboratory of "Pravda" uses, besides the standard criterion, D_o + 1.8 as criterion for determining the sensitivity of facsimile films. There is 1 graph.

1. Photographic films--Properties 2. Photographic films--Sensitivity

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SOV-77-3-5-10/21

AUTHORS: Vendrovskiy, K.V.; Sheberstov, V.I.

TITLE: The Effect of Hypersensitization by Silver Halide Solvents on Deviations from the Law of Inter-changeability at Low Exposures (Vliyaniye gipersensibilizatsii rastvoritelyami galoidnogo serebra na otkloneniya ot zakona vzaimozamestimosti pri nizkikh osveshchennostyakh)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 5, pp 377-378 (USSR)

ABSTRACT: Hypersensitization by amines decreases the deviations from the law of inter-changeability at low exposures. To test whether the action of the amines consists in dissolving and corroding the surface of the silver halide emulsion crystals, the authors carried out tests with other silver halide solvents: sodium thiosulfate, sodium sulfite, potassium thiocyanate, ammonium thiocyanate, potassium bromide and sodium chloride. The results, drawnup in graph form, show that all the solvents decrease deviations from the law at low exposures. This indicates that the solvents act upon the surface structure of the silver halide micro crystals, thus rendering them more open to reaction. The corrosive action has more effect, the smaller the amount

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The Effect of Hypersensitization by Silver Halide Solvents on Deviations from the Law of Inter-changeability at Low Exposures

photosensitive crystals, leading to an increase in contrast and a decrease in the lower curvilinear section of the characteristic curve. The amines may also act by increasing the concentration of silver ions in the emulsion, which would also tend to decrease the deviation. There are 6 graphs and 5 references, 4 of which are Soviet and 1 English.

ASSOCIATION: Moskovskiy poligraficheskiy institut (Moscow Polygraphic Institute)

SUBMITTED: April 29, 1958

1. Photographic emulsions--Sensitivity 2. Silver halides--Solvents

VENDROVSKIY, Karl Valerianovich; SHASHLOV, Boris Appolonovich; IOFIS, Ie.A., kand.tekhn.nauk, red.; TELESHEV, A.N., red.; MALEK, Z.N., tekhn.red.

[For the beginning amateur photographer] Nachinaiushchemu fotoliubiteliu. Izd.2., ispr. i dop. Pod red. E.A.Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1959. 175 p. (Biblioteka fotoliubitelia, no.12) (MIRA 13:1)
(Photography--Handbooks, manuals, etc.)

VENDROVSKIY, K.V.

Third conference of the International Standards Organization. Zhur.nauch. i prikl.fot. i kin. 4 no.1:77 Ja-F '59. (MIRA 12:2)
(Harrogate (England)--Standardization--Congresses)

SOV/77-4-2-12/18

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AUTHORS: Vendrovskiy, K.V., Sheberstov, V.I.

TITLE: The Maximum Light Sensitivity of Silver Halide Photographic Layers (O predel'noy svetochuvstvitel'nosti galoidoserebryannykh fotograficheskikh sloyev)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 138-139 (USSR)

ABSTRACT: The authors state that calculation of the maximum light sensitivity of photographic layers is possible only after the following assumptions have been made: 1) that all the radiant energy in the visible spectrum falling on the photographic layer is absorbed by the emulsion grains; 2) that the photographic layer has a uniform spectral sensitivity from 400 to 700 $\mu\mu$; 3) that absorption of one quantum of energy is enough to develop the grain. However, they state that the latter assumption is not justified from the practical viewpoint as

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The Maximum Light Sensitivity of Silver Halide Photographic Layers

the center of development must consist of several photolytically formed atoms of silver, and besides this, several electron traps may compete for one electron when the latent image is being formed. They find that the light sensitivity required equals:

$$S = \frac{4,5}{17,5 \cdot 10^{-5}} = 25,000 \text{ (lux-seconds)}^{-1}$$ (S=light sensitivity)

They carried out calculations taking the number of traps of equal value in the grain as 1, 5 and 10, and the number of silver atoms in the center of development as 1,2,3 and 4. The calculations were based on Poisson's probability formula and are shown in the table, where n is the number of quanta which should be received by a grain with a given number of traps and Ag atoms in the

The Maximum Light Sensitivity of Silver Halide Photographic Layers

center of development and S is the light sensitivity. They finally remind the reader that since the photographic layer absorbs only about 50% of the light falling upon it, the figures obtained should be halved. There is 1 table and 4 references, 3 of which are Soviet and 1 English-language.

ASSOCIATION: Moskovskiy poligraficheskiy institut (Moscow Polygraphic Institute)

SUBMITTED: January 12, 1959

VENDROVSKIY, K.V.

PHASE I BOOK EXPLOITATION SOV/4159

Akademiya nauk SSSR. Komissiya po nauchnoy fotografii i kinematografii

Uspekhi nauchnoy fotografii, tom 7: Priroda fotograficheskoy chuvstvitel'nosti. Izgotovleniye galoidoserebryanykh fotograficheskikh sloyev. Opticheskaya sensibilizatsiya i gipersensibilizatsiya. Khimiko-fotograficheskaya obrabotka svetochuvstvitel'nykh sloyev (Nature of Photographic Sensitivity. Preparation of Haloid-Silver Photographic Layers. Optical Sensitizing and Hyper-Sensitizing. Chemical-Photographic Treatment of Photo-Sensitive Layers) Moscow, 1960. 260 p. Errata slip inserted. 1,800 copies printed.

Editorial Board: K.V. Chibisov (Resp. Ed.) Corresponding Member, Academy of Sciences USSR, V.I. Sheberstov (Deputy Resp. Ed.) Candidate of Chemical Sciences, Docent, Yu. N. Gorokhovskiy, Doctor of Chemical Sciences, Professor, G.A. Istomin, Doctor of Technical Sciences, Professor, and I.I. Levkoyev, Candidate of Chemical Sciences; Ed. of Publishing House: K.I. Markhilevich; Tech. Ed.: G.S. Simkina.

PURPOSE: This collection of articles is addressed to those working in theoretical and applied photography and cinematography, and to researchers in the chemistry and physics of photographic processes.

COVERAGE: The collection contains articles from the editorial files of the Zhurnal nauchnoy i prikladnoy fotografii i kinematografii discussing problems in the theory and technology of the preparation of photographic emulsions and optical sensitization, and, finally, the chemical photographic processing of black-and-white and color photographic materials. Many of the articles contain the results of scientific investigations made by the authors. The collection also includes several reviews of current problems in the theory of chemical-photographic processes. A bibliography of Soviet and non-Soviet references accompanies each article.

(21)

VENDROVSKIY, K. V., Cand Tech Sci -- (diss) "Deviations from the law of interconvertibility at low exposures of phototechnical films." Moscow, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Polygraphic Inst); 200 copies; price not given; (KL, 27-60, 152)

VENDROVSKIY, K.V.; SHEBERSTOV, V.I.

Reversibility of the desensitizing effect of moisture on the photographic layers. Zhur.nauch.i prikl.fot.i kin. 5 no.4: 295-296 Jl-Ag '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut (VNIKFI).
(Photographic emulsions)

PYASETSKAYA, O.V.; VENDROVSKIY, K.V.

Dependence of the photometric equivalent on the average size of undeveloped emulsion grains. Zhur.nauch. i prikl.fot i kin. 5 no.5: 368-369 S-O '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut (NIKFI).
(Photographic emulsions)

VENDROVSKIY, K.V.

Effect of preparation conditions and of the processing of photographic layers on the reciprocity law failure. Usp.nauch.fot 7: 57-76 '60. (MIRA 13:7)

(Photographic emulsions)

S/0077/64/009/002/0096/0102

ACCESSION NR: AP4026816

AUTHORS: Vendrovskiy, K. V.; Pakushko, I. Z.

TITLE: On the relationship between light sensitivity, resolving power, and emulsion grain dimension of photographic films

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 9, no. 2, 1964, 96-102

TOPIC TAGS: light sensitivity, resolving power, emulsion grain, photographic film, silver deposit, contrast coefficient

ABSTRACT: A large number of negative films from various firms (e.g., Adox, Agfa, DuPont, Kodak, Sakura, etc.) has been investigated, and the maximum light sensitivity S versus mean projection area "a" of these films was measured on the basis of 0.85 and 0.2 film criteria. The results show a functional dependence between S and "a" expressed by $S = k\frac{a^{3/2}}{2,28a+0,95}$. It is observed that the maximum contrast coefficient and rate of growth of contrast can be determined not only by a photometric equivalence but by the silver deposit per unit film surface area. Because of the variety of film materials used in the study there is a wide variety in light

Card 1/2

ACCESSION NR: AP4026816

sensitivity of each specimen. A more accurate representation was obtained after collecting the various films into two groups: Kodak film was group one; Ilford, Gevaert, Ferrania, Fuji, Agfa, and Adox were put into group two. The graph of resolving power versus sensitivity plotted on a log-log scale gave two straight lines with -0.30 and -0.31 slopes, respectively. Orig. art. has: 6 figures, 1 formula, and 1 table.

ASSOCIATION: Vsesoyuzny*y nauchno-issledovatel'skiy kinofotoinstitut (VNIKFI) (All-Union Motion Picture Scientific Research Institute)

SUBMITTED: 04Jan63 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: ES NO REF SOV: 004 OTHER: 000

Card 2/2

MINKEVICH, I.G.; VENDROVSKIY, K.V.

Investigating the fluctuations of photographic blackening. Zhur.nauch.i prikl.fot. i kin. 10 no.3:193-200 My-Je '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.

MINKEVICH, I.G.; VENDROVSKIY, K.V.

Self-recording microdensitometer. Zhur. nauch. i prikl. fot. i kin. 9 no.5:352-357 S-O '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).

VENDROVSKIY, K.V.; PAKUSHKO, I.Z.

Halation formation in photographic emulsions. Usp.nauch.fot. 10:116-122 '64. (MIRA 17:10)

VENDROVSKIY, K.V.; PAKUSHKO, I.Z.

Relation between light sensitivity, resolving power and size of emulsion grains of photographic emulsions. Zhur.nauch. i prikl.fot. i kin. 9 no.2:96-101 Mr-Ap '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).

BEKUNOV, V.A.; VENDROVSKIY, K.V.; PYASETSKAYA, O.V.

Relationship between the sensitivity of the photographic layer and the average size of the emulsion grains. Trudy NIKFI no.51: 5-9 '62. (MIRA 16:12)

VENDROVSKIY, K.V.; BEKUNOV, V.A.; SHEBERSTOV, V.I.

Present-day level and theoretical limits of sensitivity of photographic silver halide layers. Zhur.nauch.i prikl.fot. i kin. 6 no.5:367-370 S-O '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI)

(Photographic emulsions)
(Photographic sensitometry)

PYASETSKAYA, O.V.; VENDROVSKIY, K.V.

Response to V.L. Zelikman's article on the relationship between the photometric equivalent and the mean size of undeveloped emulsion grains. Zhur.nauch.i prikl.fot. i kin. 6 no.5:393-394 S-O '61. (MIRA 14:9)

(Photographic emulsions)
(Photographic sensitometry)

Z/011/62/019/010/008/009
E112/E435

AUTHORS: Sheberstov, V.I., Vendrovskiy, K.V.

TITLE: Study of temperature effects on photographic development

PERIODICAL: Chemie a chemická technologie. Přehled technické a hospodářské literatury, v.19, no.10, 1962, 484, abstract Ch 62 6524 (Zh. nauch. prikl. Fotogr. Kinematogr. v.7, no.2, 1962, IV, 103-111)

TEXT: This is the eighth in a series of papers dealing with the dependence of the kinetics and activation energy of photographic development on the state of the latent image. The paper describes experiments with latent images and the development of films, exposed to light of different intensities.
5 diagrams, 8 tables, 5 literature references.

[Abstracter's note: Complete translation.]

Card 1/1

VENDROVSKIY, K.V.

Increasing the sensitivity of photographic materials by means of additional lighting. Zhur.nauch.i prikl. fot.i kin. 6:421-428 N-D '61. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).

(Photographic sensitometry)

USPENSKIY, V.I.; LEVKOYEV, I.I.; VENDROVSKIY, K.V.

Third Hungarian Conference on Scientific and Applied Photography.
Zhur.nauch.i prikl.fot.i kin. 7 no.1:78-80 Ja-F '62.
(MIRA 15:3)

(Photography—Congresses)

VENDROVSKIY, K.V., inzh.; SHASHLOV, B.A., kand.tekhn.nauk, dotsent

Reciprocity failure in photographic reproductions. Nauch. trudy MPI no.7/8:157-164 '58. (MIRA 14:12)
(Photomechanical processes)

VENDROVSKIY, K. V.; SHEBERSTVO, V. I.

Limits of the photographic sensitivity today and tomorrow; London conference. Zhur.nauch. i prikl.fot. i kin. 6 no.4:317-319 Jl-Ag '61. (MIRA 14:11)
(Photographic sensitometry)

VENDROVSKIY, K. V., KARTUZHANSKIY, A. L., and PYASETSKAYA, OV.

"On the photometric equivalence of the blackening caused by the influence of light and corpuscular rays"

Fourth International Colloquium on Photography (Corpuscular) - Munich, West Germany, 3-3 Sep 62

VENDROVSKIY, Karl Valerianovich; ZHUTOVSKIY, Boris Iosifovich; IOFIS, Ye.A., kand. tekhn. nauk, red.; FOMIN, A.A., red.; SUSHKEVICH, V.I., tekhn. red.

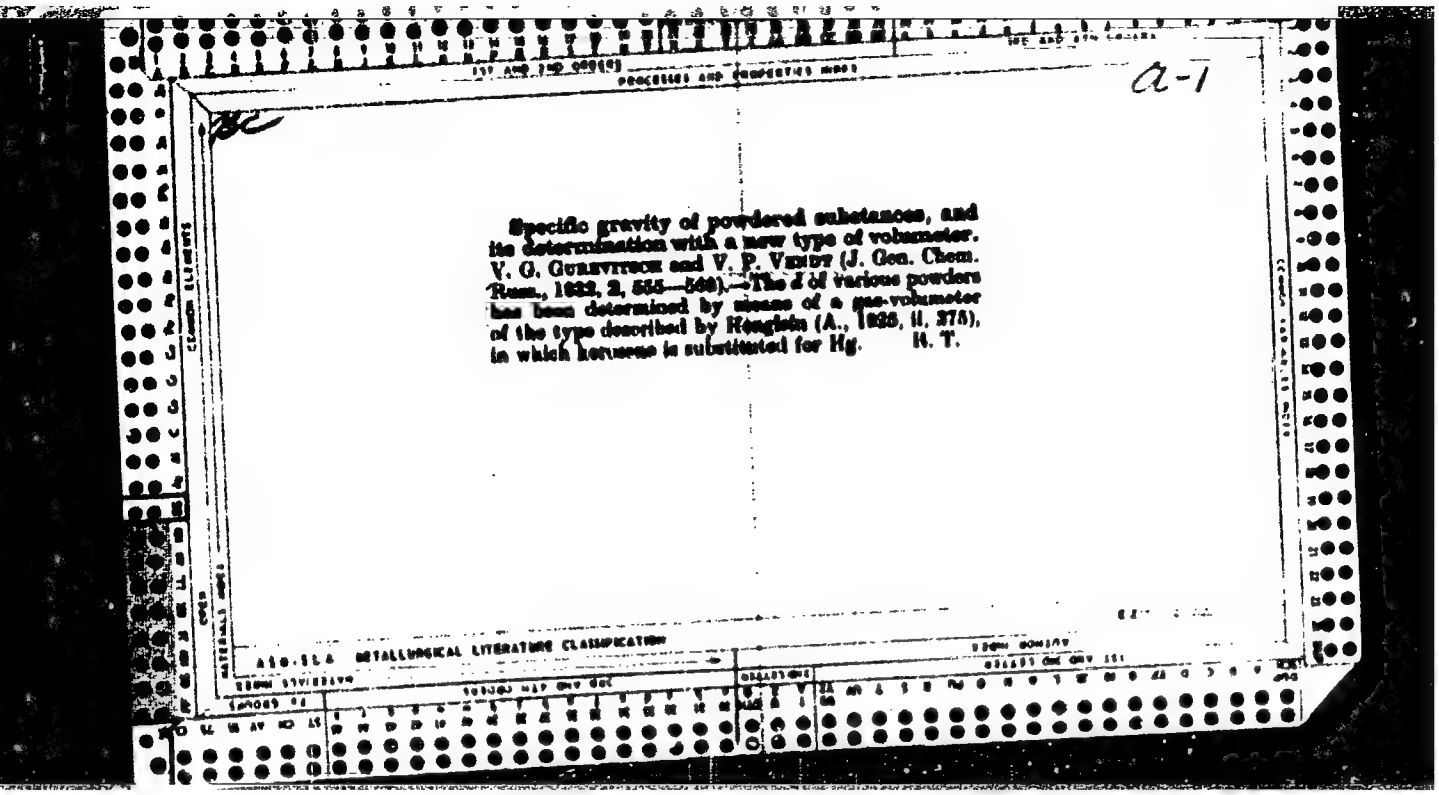
[For the amateur photographer-tourist] Fotoliubiteliu-turistu. Pod red. E.A.Iofisa. Moskva, Gos. izd-vo "Iskusstvo," 1961. 99 p. (Biblioteka fotoliubitelia, no.21) (MIRA 15:3)

(Photography)

VENDROVSKIY, K.V.; SHEBERSTOV, V.I.

Calculating the maximum sensitivity to light of photographic layers. Zhur. nauch. i prikl. fot.i kin. 6 no.1:27-33 Ja-F '61. (MIRA 14:3)

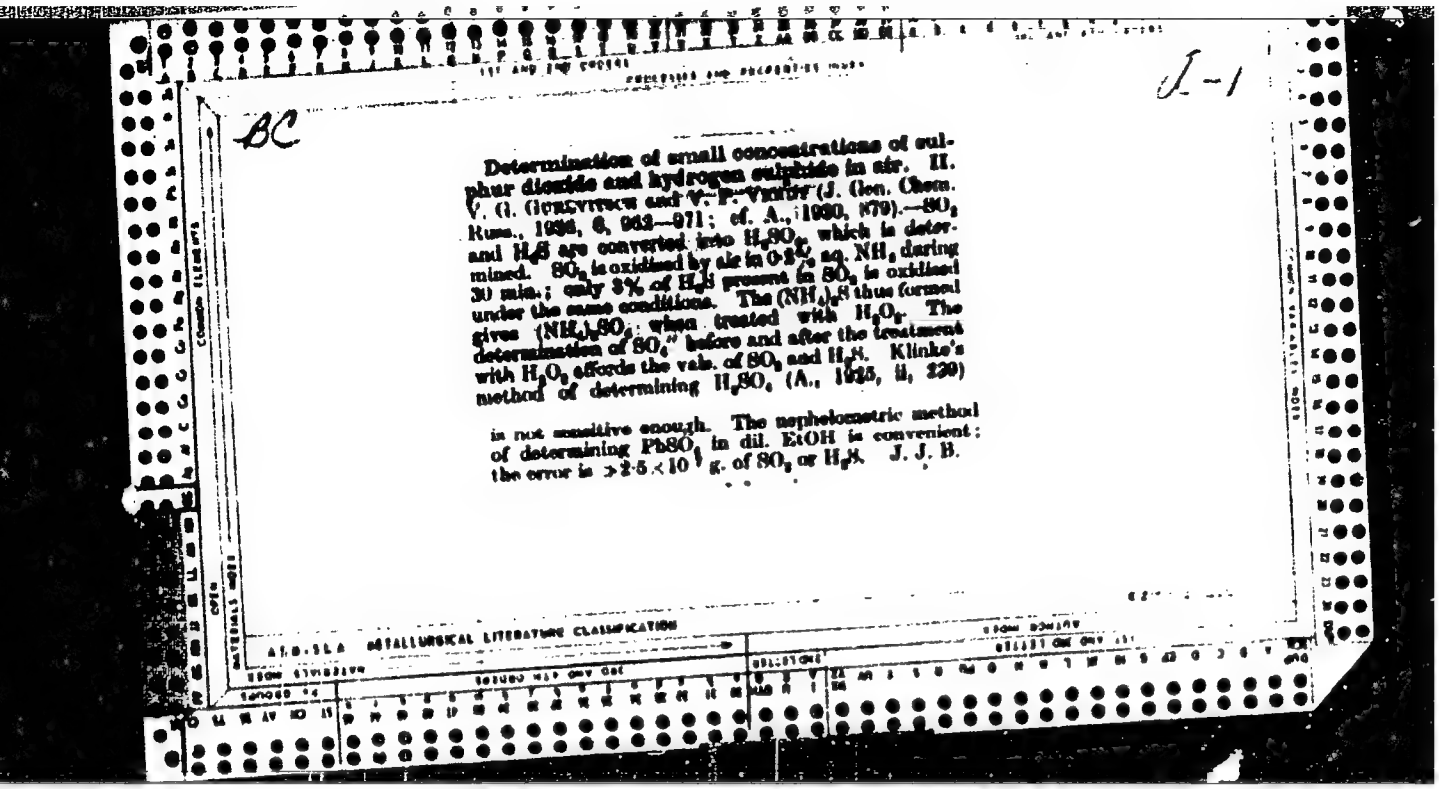
1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut(NIKIFI).
(Photographic emulsions)(Photographic sensitometry)



a-1

Specific gravity of powdered substances, and its determination with a new type of volumeter. V. G. Gurevitsch and V. P. Vendt (J. Gen. Chem. Russ., 1932, 2, 555—560).—The d of various powders has been determined by means of a gas-volumeter of the type described by Rüegheim (A., 1925, ii, 378), in which kerosene is substituted for Hg. H. T.

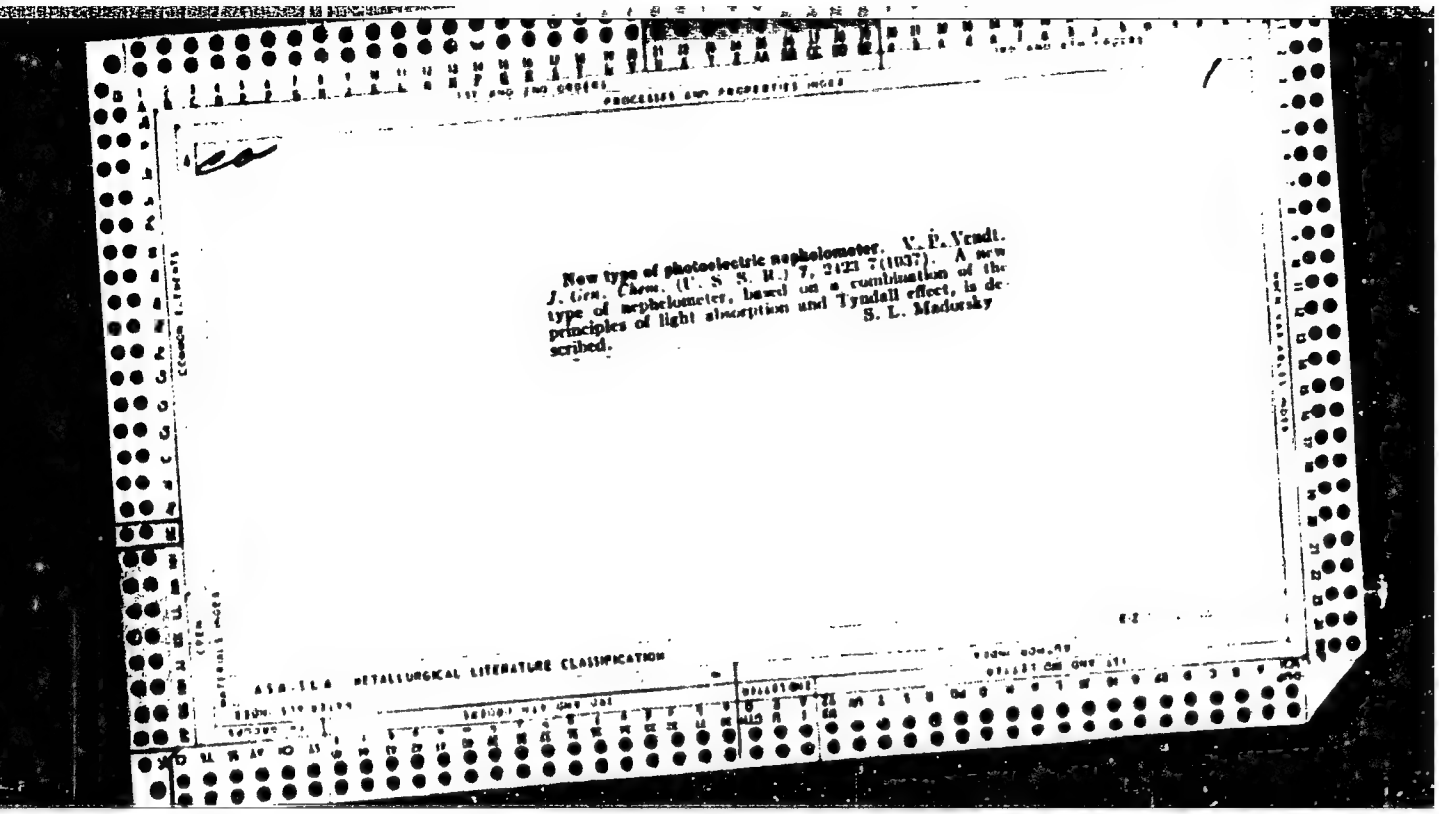
A50-51A METALLURGICAL LITERATURE CLASSIFICATION



J-1

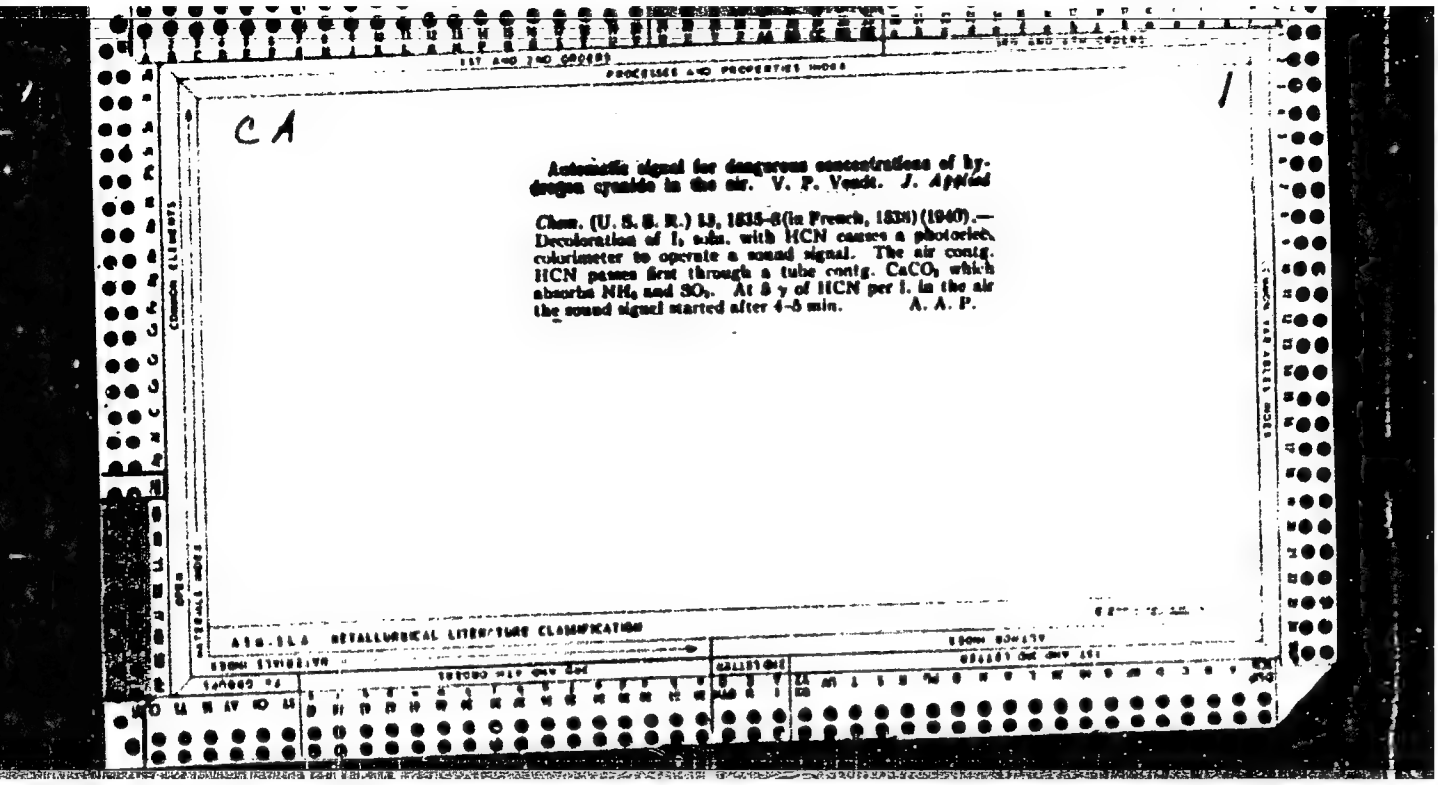
BC

Determination of small concentrations of sulphur dioxide and hydrogen sulphide in air. II. V. G. GURVITSCH and V. P. VENOV (J. Gen. Chem. Russ., 1936, 6, 963—971; cf. A., 1930, 879).—SO_2 and H_2S are converted into H_2SO_4, which is determined. SO_2 is oxidised by air in 0·2% aq. NH_3 during 30 min.; only 3% of H_2S present in SO_2 is oxidised under the same conditions. The $(NH_4)_2S$ thus formed gives $(NH_4)_2SO_4$ when treated with H_2O_2. The determination of SO_2 before and after the treatment with H_2O_2 affords the vals. of SO_2 and H_2S. Klinke's method of determining H_2SO_4 (A., 1925, ii, 230) is not sensitive enough. The nephelometric method of determining $PbSO_4$ in dil. EtOH is convenient; the error is $>2·5\times10^{-4}$ g. of SO_2 or H_2S. J. J. B.



New type of photoelectric nephelometer. V. P. Vendt. J. Gen. Chem. (U. S. S. R.) 7, 2421-7 (1937). A new type of nephelometer, based on a combination of the principles of light absorption and Tyndall effect, is described.
S. L. Madorsky

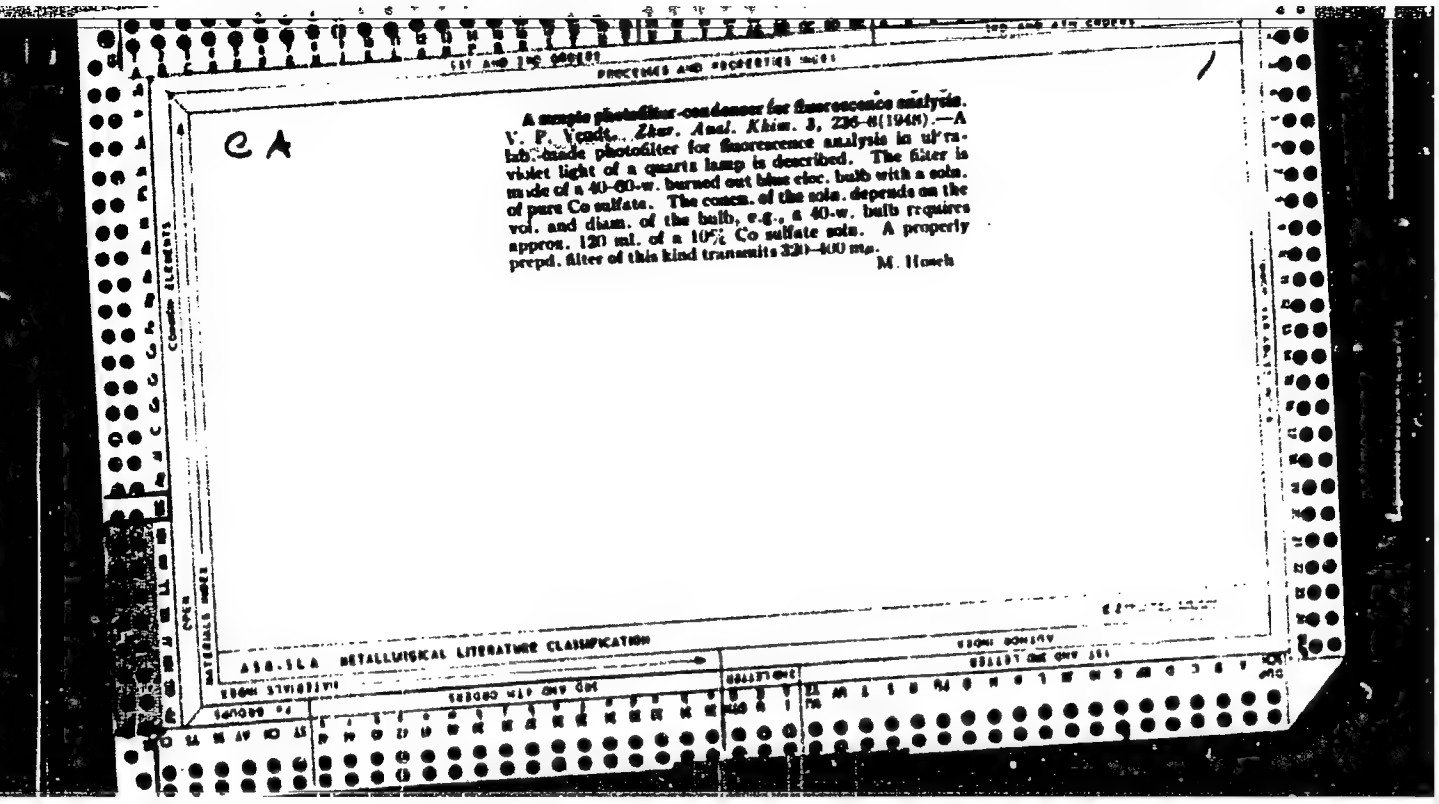
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

1

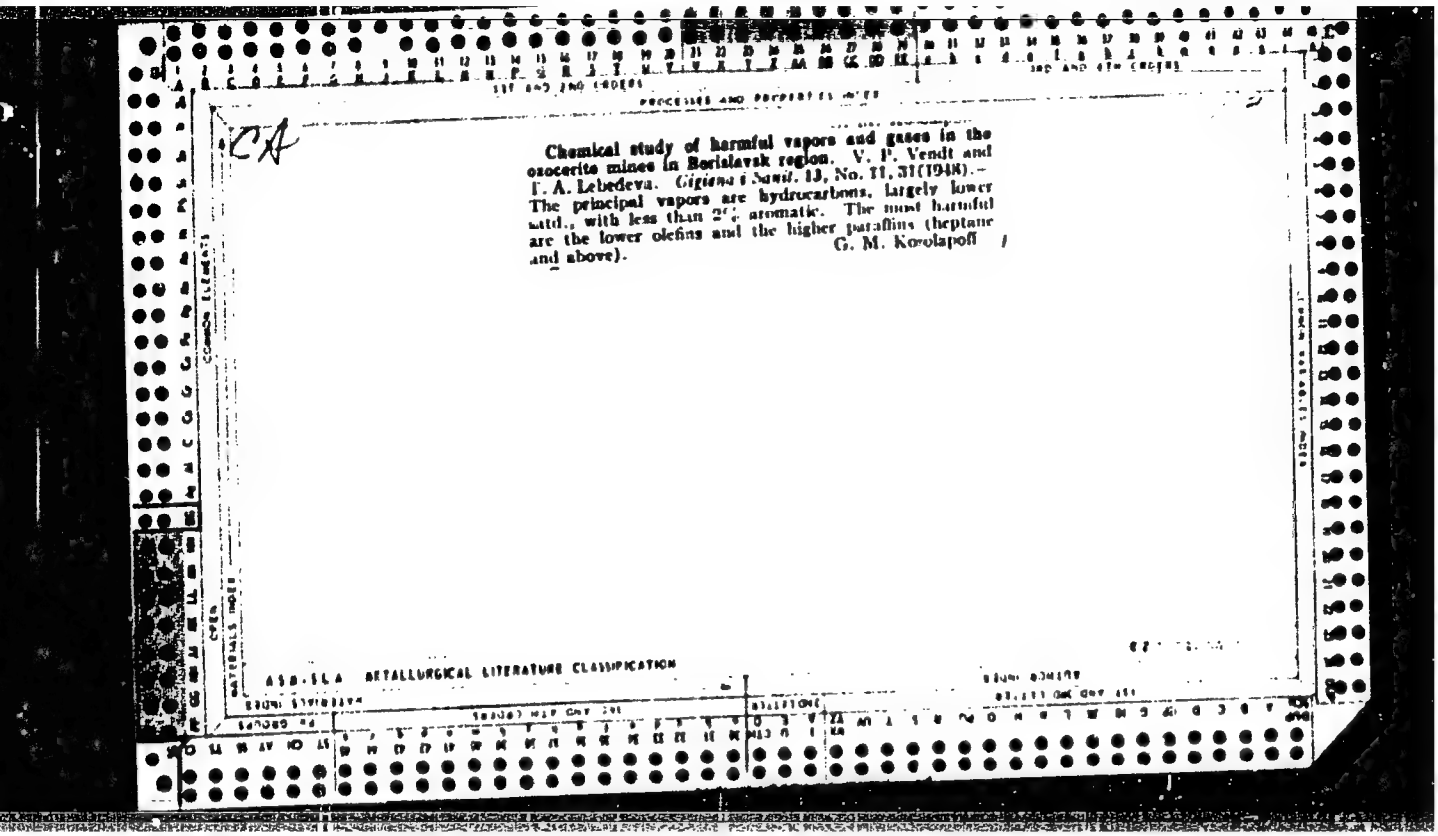
Automatic signal for dangerous concentrations of hydrogen cyanide in the air. V. P. Vendt. *J. Applied Chem.* (U. S. S. R.) 13, 1835-8 (in French, 1838) (1940).—Decoloration of I, satn. with HCN causes a photoelect. colorimeter to operate a sound signal. The air contg. HCN passes first through a tube contg. $CaCO_3$ which absorbs NH_3 and SO_2. At 5 γ of HCN per l. in the air the sound signal started after 4–5 min. A. A. P.



CA

A simple photofilter-condenser for fluorescence analysis. V. F. Vendt. *Zhur. Anal. Khim.* 3, 236–8(1948).—A lab.-made photofilter for fluorescence analysis in ultraviolet light of a quartz lamp is described. The filter is made of a 40–60-w. burned out blue cloc. bulb with a soln. of pure Co sulfate. The concn. of the soln. depends on the vol. and diam. of the bulb, e.g., a 40-w. bulb requires approx. 120 ml. of a 10% Co sulfate soln. A properly prepd. filter of this kind transmits 320–400 mμ.

M. Hosch



CA

Chemical study of harmful vapors and gases in the ozocerite mines in Borislavsk region. V. P. Vendt and T. A. Lebedeva. *Gigiena i Sanit.* 13, No. 11, 31(1948).— The principal vapors are hydrocarbons, largely lower satd., with less than 2% aromatic. The most harmful are the lower olefins and the higher paraffins (heptane and above).
G. M. Kosolapoff

A58-51A METALLURGICAL LITERATURE CLASSIFICATION

VENDT, V. P.

PA 3/49T41

USSR/Engineering Aug 48
Photometry
Photoelectric Cells

"Use of Silver-Sulfur Photoelectric Cells for Photometric Research," V. P. Vendt, Biochem Inst, Acad Sci Ukrainian SSR, 2 pp

"Zavod Lab" Vol XIV, No 8

Reports investigation comparing new FESS silver-sulfur cell with standard selenium cell. Quantities measured include color, turbidity and infrared rays.

3/49T41

VENDT, V. P.

Chemical Abstracts
May 25, 1954
Biological Chemistry

(3)

Determination of adenylic acid in tissues. I. The spectrographic determination of adenylic acid. A. I. Silakova and V. P. Vendt (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 20, 351-61 (in Russian, 301-2)(1948).—The method of Kalckar (*C.A.* 41, 3132*ab*) is improved. A Zeiss spectrograph of medium dispersion and the light of a quartz lamp are employed. The wave length 265 mμ is selected for the detns.; although the extinction coeff. is not at a max., interference by inosinephosphoric acid is lowest here, and the Lambert-Beer law is rigidly fulfilled, so that 2γ of adenylic acid (I) in a cell with a path length of 0.5 cm. can be detd. This improved method is used to follow the deamination by the Schmidt deaminase; the presence of I in heart muscle was shown for the 1st time with this method.

Werner Jacobson

VENT, V. P.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Apparatus, Plant Equipment, and Unit Operations

2

A simple photoelectric colorimeter for the biochemical laboratory. V. P. Vent (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 21, 185-93 (1949)(Russian summary).—A simple and fairly inexpensive photoelec. colorimeter of rugged construction is described. The instrument can be used in the range from 320 to 1200 mμ. I.e. for 320–760 mμ a Se cell is used, and for 700–1200 mμ a AgS cell is used. The instrument is operated with 127 or 220 v., the sensitivity is varied by suitable shunting of the galvanometer. The voltage is kept const. by aid of a special transformer-stabilizer. Five to ten cc. of soln. is needed for each detn., and assays of vitamin A, ergosterol, vanillin, etc., have shown that the instrument is accurate within ±2-3%.

Werner Jacobson

MF 11-5-51

VENDT, V. P.

(3)

A new method for determining vitamin A in preparations, concentrates, and fish oil. V. P. Vendt and T. M. Kusnetsova (Inst. Biochem. Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 21, 218–26(in Russian, 227)(1949). —The method is based on the reaction taking place between vitamin A and HCl in glycerol 1,3-dichlorohydrin. It is about 1½ times as sensitive and as accurate as any of the old procedures, and good detns. of vitamin A can be made in the presence of carotene without having to resort to the use of adsorbents. Results are calcd. with the aid of tables worked out for two variations of the method—photometric and photocolorimetric. The color developed is stable, which is an advantage over the Carr-Price method in which the color stability lasts only 10 sec. B. S. Leving

RH 11-23-54

VENDT, V. P.

USSR/Chemistry - Water, Determination of Apr 49
Chemistry - Spectrophotometry

"Photometric Determination of Water in Some Fluids," V. P. Vendt, Inst Biochem, Acad Sci Ukrainian SSR, 3 pp

"Dok Ak Nauk SSSR" Vol LXV, No 5

States experimental results of photometric determination of water in certain organic and inorganic liquids, using simple testing spectrophotometer with silver sulfide photoelement. Two graphs show calibration curves for acetone, acetic acid, and pyridine. Describes calibrating instrument and curves for butyl alcohol and ethyl acetate, plotting galvanometer reading against H_2O concentration. Submitted by Acad A. V. Palladin, 21 Jan 49

39/49T14

VENDT, V. P.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Pharmaceuticals, Cosmetics, Perfumes

Application of the chromatographic method with preparation of concentrates of some fat-soluble vitamins. V. P. Vendt. *Issledovaniya v Oblasti Khromatog., Trudy Vsesoyuz. Soveshchaniya Khromatog., Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1950, 208-10(Pub. 1952).—A brief account is given of expts. on the concn. of vitamin A (from the fat of Black Sea skates) and vitamin E (from wheat germ) by chromatographic adsorption on calcined Al_2O_3. Concentrates of the former with activity of 1,000,000 International Units per g. and of the latter with concn. of 50% were achieved. The products were checked by visual photometry by using suitable phosphors. The activity of the adsorbent Al_2O_3 was detd. by detg. the heat of sorption of pure C_6H_6. The calibration curve is shown. G. M. K.

VENDT, V. P.

FDD PA 169T23

USSR/Chemistry - Air, Analysis Sep 50

"Portable Gas Analyzer for Determination of Small Amounts of Carbon Monoxide and Carbon Dioxide," V. P. Vendt, T. A. Lebedeva, Kiev Inst of Labor Hygiene and Occupational Diseases

"Zavod Lab" Vol XVI, No 9, pp 1125-1126

Apparatus uses principle of oxidizing CO with iodic anhydride into CO_2 which, absorbed by titrated alkali solution, is determined titrimetrically or colorimeterically. May be used for CO concentration from 0.02 to 2 mg/l of air.

169T23

VENDT, V. P., TSYPEROVYCH, A. S.

Tyrosine

Spectrographic investigation of changes in the reactivity of tyrosine groups in serous and ovular proteins during denaturation. Ukr. biokhim. zhur. 22, No. 1, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1953, Uncl.

VENDT, V.P.; KUZNETSOVA, L.M.

Study of unsaponifiable substances form certain invertebrates. Part 1. Group D provitamins in Black Sea mussels. Ukr.biokhim.zhur. 22 no.2: 144-153 '50.

(MLRA 9:9)

1. Institut biokhimii Akademii nauk URSR, Kiiv.

(BLACK SEA—MUSSELS) (PROVITAMINS)

VENDT, V.P.; DROKOVA, I.G.

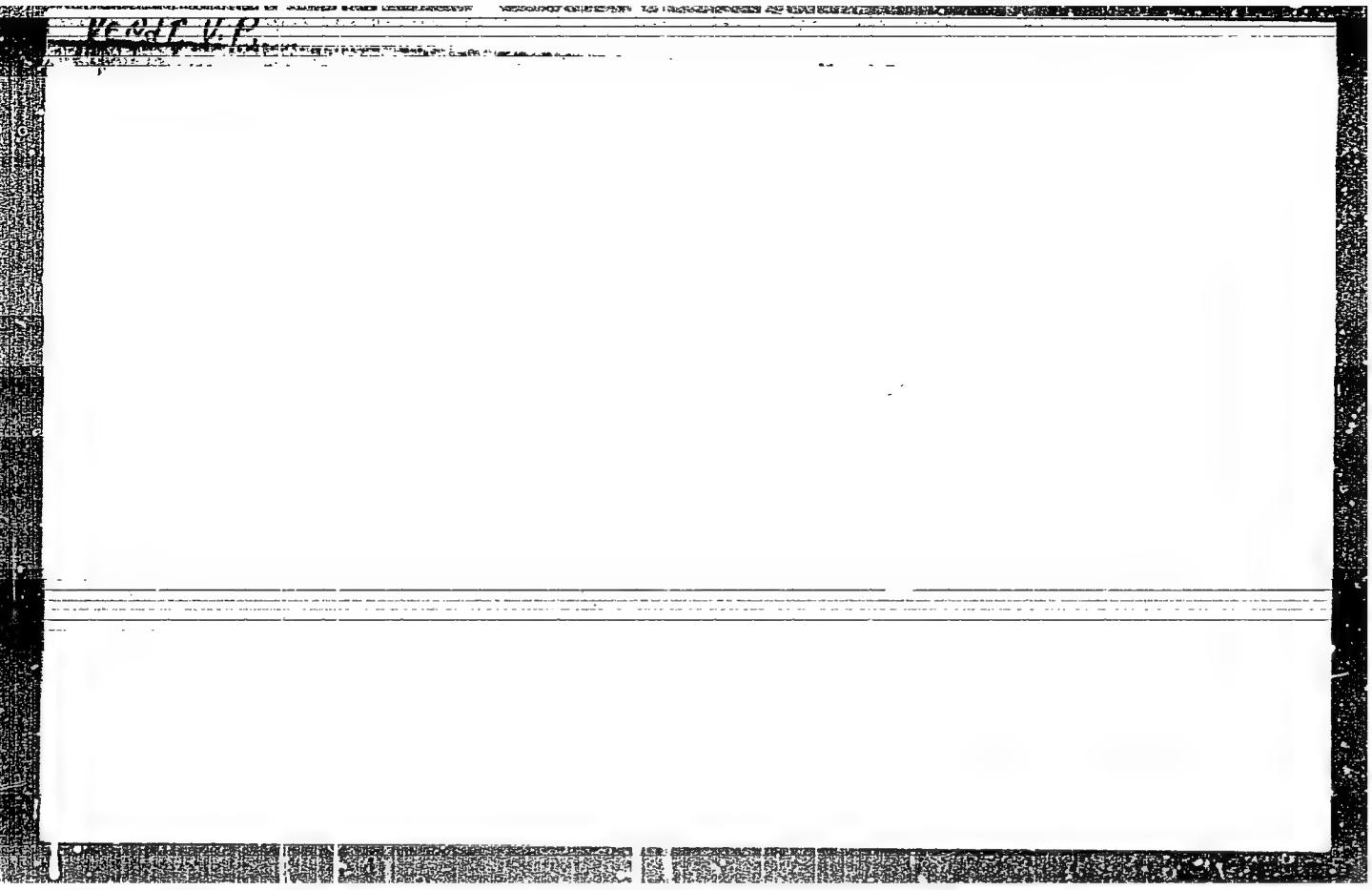
Determination of vitamin D_2 in presence of sterols and of products of ergosterol photochemical conversion. Ukr.biokhim.zhur. 22 no.2: 160-165 '50. (MLRA 9:9)

1. Institut biokhimii Akademii nauk URSR, Kiiv.
(VITAMINS--D)

CA

1

Photometric determination of water in some liquids. V. P. Vendt (Acad. Sci. Ukr. S.S.R.). *Doklady Akad. Nauk S.S.S.R.* **73**, 689-91(1950).—An ordinary incandescent bulb light source used with Ag_2S photoelement (sensitivity max. about 850-950 mμ, with decline to 1400 mμ) is satisfactory for H_2O detection (absorption band at 950 mμ and a sharp drop of transmission at 1200 mμ) when a visible light filter is used (cut off under 0.8-0.9 μ). Liquids which do not have strong absorption in this region are best objects for detns. by means of calibration curves made by addn. of known amts. of H_2O. Me_2CO, pyridine, AcOH, and EtOH give smooth curves up to 100% H_2O; results are similar for MeOH, glycerol, Ac_2O, H_3PO_4, and H_2SO_4; HCl and HNO_3 are less satisfactory. Liquids immiscible with H_2O in all proportions give curves with a sharp break at the point of clouding of the mixts. (BuOH, AcOEt); similar results are obtained with $CHCl_3$, Et_2O, MePh, and C_6H_6. However, detn. of H_2O in these liquids is possible at elevated temps. when cloudiness does not interfere. G. M. Kosolapoff



VENDT, V.P.

A simple photoelectric spectrophotometer based on the principle of a quarts spectograph. Ukr.biokhim.zhur. 23 no.4:382-385 '51.
(MLRA 9:9)

1. Institut biokhimii Akademii nauk URSR, Kiiv.
(SPECTROPHOTOMETER)

DUBININ, M.M., akademik, otvetstvennyy redaktor; GAPON, Ye.N.; GAPON, T.P ; ZHYRAKHINA, Ye.S.; RACHINSKIY, V.V.; BELEN'KAYA, I.M.; SHUVAEVA, G.M.; ROGINSKIY, S.Z.; YANOVSKIY, N.I.; FUES, N.A.; KISELEV, A.V.; NEYMARK, I.Ye.; SLINKAKOVA, I.B.; KHATSET, F.I.; LOSEV, I.P.; TROSTYANSKAYA, Ye.B.; TEVLINA, A.S.; DAVANKOV, A.B.; SALDADZE, K.M.; BRUMBERG, Ye.M.; ZHIDKOVA, Z.V.; VEDENEEVA, N.Ye.; NAPOL'SKIY, S.A.; MIKHAYLOVA, Ye.A.; KAZANSKIY, B.A.; RYABCHIKOV, D.I.; SHEMYAKIN, F.M.; KRETOVICH, V.L.; BUNDEL', A.A.; SAVINOV, B.G.; VENDT, V.P.; EPSHTEYN, Ye.A.

[Research in the field of chromatography transactions of the All-Union Conference on Chromatography, November 21-24, 1950] Issledovaniia v oblasti khromatografii; trudy Vsesoiuznogo soveshchaniia po khromatografii, 21-24 noiabria 1950 g. Moskva, Izd-vo Akademii nauk SSSR, 1952. 225 p.

(MLRA 6:5)

1. Akademiya nauk SSSR. Otdelenie khimicheskikh nauk.

(Chromatographic analysis)

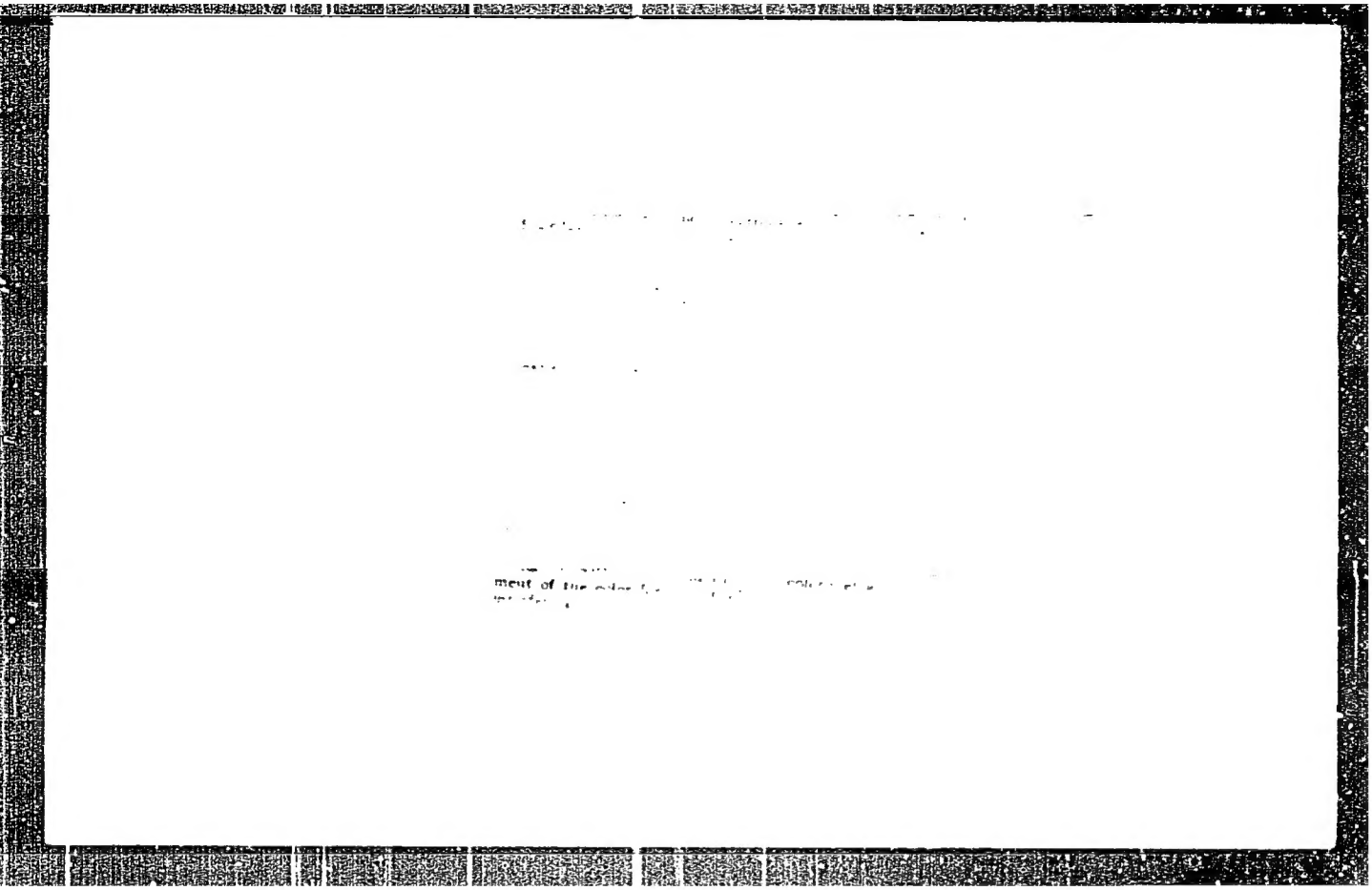
VENDT, V.P.

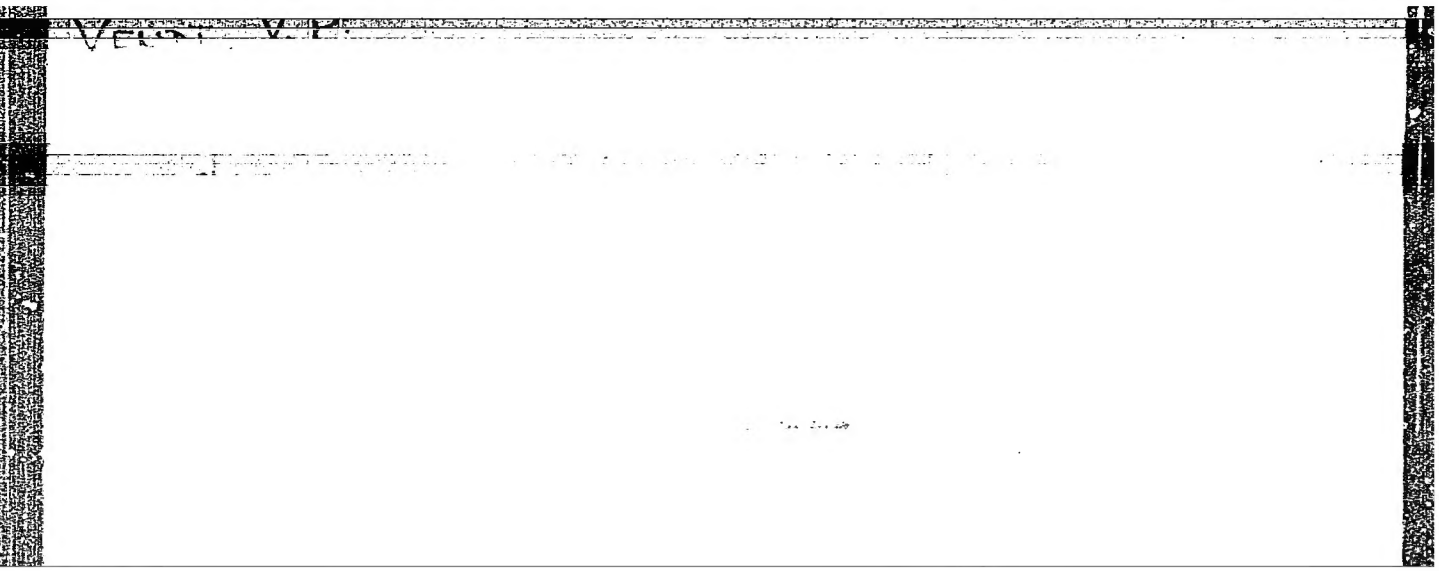
Photometric methods used in the chemical analysis in the ultraviolet and near-infrared spectral range. Nov.med. no.26:10-11 '52.
(SPECTROPHOTOMETRY) (MIRA 11:1)

VENDT, V.P.;DVORNIKOVA, P.D.;ANINA, I.A.

Spectrophotometric studies on protein solutions in various pH of medium. Doklady Akad nauk SSSR 86 no. 6:1167-1170 21 Oct 1952. (CIML 23:3)

1. Presented by Academician A. V. Palladin 19 August 1952. 2. Institute of Biochemistry, Academy of Sciences Ukrainian SSR.





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